

FIG. 1

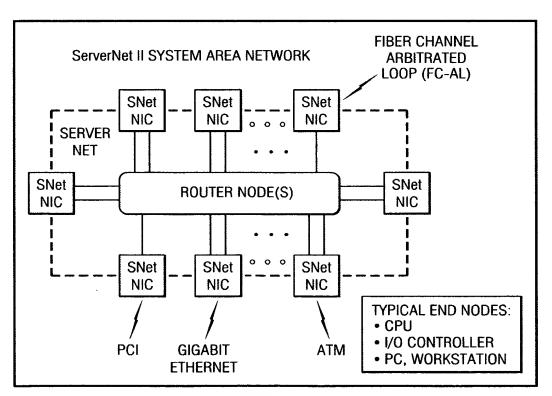


FIG. 2

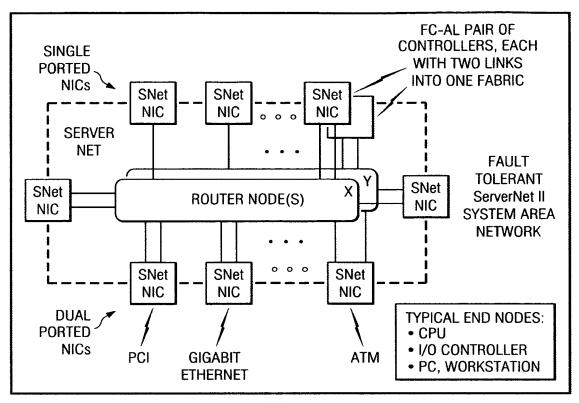
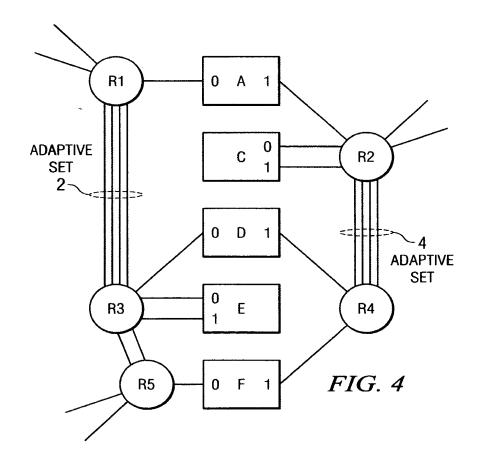


FIG. 3



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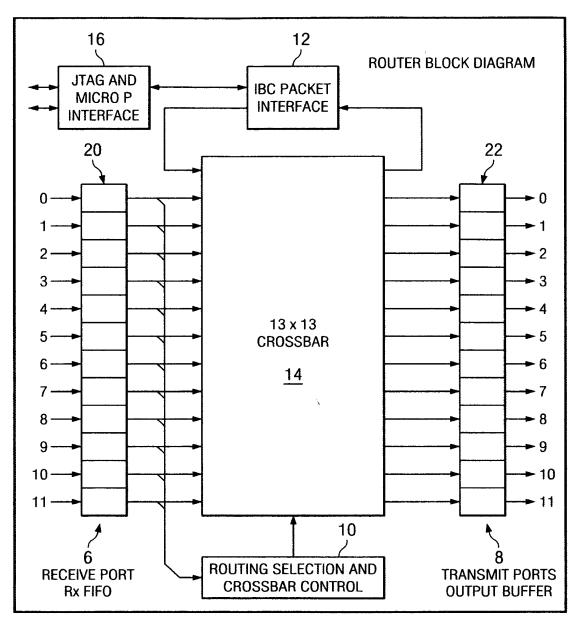


FIG. 5

TABLE 2 PHYSICAL LINK TRANSLATION INTO PHYSICAL LANE					
FAT PIPE	PHYSICAL LANE 0	PHYSICAL LANE 1	PHYSICAL LANE 2	PHYSICAL LANE 3	
0	1	6	9		
1	5	7	8	11	

FIG. 6



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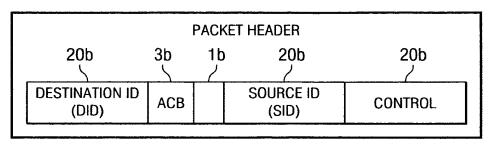


FIG. 7

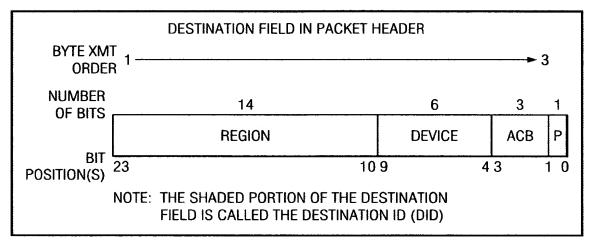


FIG. 8

ADAPTIVE CONTROL BITS (ACB) ENCODING DEFINITION			
ENCODING	DEFINITION		
000	ORDERED PACKET DELIVERY TO LANE 0 IF ROUTED TO A PORT IN AN ADAPTIVE SET		
001	ORDERED PACKET DELIVERY TO LANE 1 IF ROUTED TO A PORT IN AN ADAPTIVE SET		
010	ORDERED PACKET DELIVERY TO LANE 2 IF ROUTED TO A PORT IN AN ADAPTIVE SET		
011	ORDERED PACKET DELIVERY TO LANE 3 IF ROUTED TO A PORT IN AN ADAPTIVE SET		
100	UNORDERED PACKET DELIVERY TO LANE DETERMINED BY ADAPTIVE SET LOGIC		
101-111	RESERVED (LOGIC IN ROUTER-II TREATS THIS THE SAME AS THE 100 ENCODING)		

FIG. 9



SELECT ROUTER
OUTPUT PORT SELECT LANE
• WITHIN
ADAPTIVE SET PER ADAPTIVE SET LANE SELECTION, ROUND ROBIN ADJUST FOR OFFLINE LANES ROUTING FLOW DIAGRAM MAP LANE TO PORT ADAPTIVE CONTROL BITS (FROM PACKET HEADER) PRELIMINARY PORT ASSIGNMENT (PPA) MAP PORTS TO **LANES WITHIN** ADAPTIVE SET FIG. 10 0 ORDERED 1 USE ADAPTIVE ROUTING PORT-STATUS **PHYSICAL OUTPUT PORT** SELECTED (FROM PACKET HEADER) 6 5 DESTINATION ID (DID) 2:0 ROUTING TABLE 1024 ENTRIES 2 5 က 1 - TABLE OUTPUT IS AN ADAPTIVE SET 0 - TABLE OUTPUT IS AN OUTPUT PORT 6 ROUTER 1 LOW REGION ROUTER 0 HIGH REGION

